

ABSTRACT

VALIDATION OF ATOMIC ABSORPTION SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF ZINC SULPHATE IN SYRUP FOR DIARRHEA

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Determination of ZnSO_4 in syrup for diarrhea using atomic absorption spectrophotometric (AAS) and complexometric titration have been studied. The aim of this research was validating AAS for determination of zinc sulphate in pediatric syrup for diarrhea. Validation parameters used were accuracy, precision, specificity, and linearity. The result of this study shown calibration graph was linier on the Zn range of 0,5-2,0 ppm with r value and V_{xo} were 0.998 and 2,98% repectively. Accuracy and precision of AAS method were $101,2\% \pm 1,36$; $2,34\% \pm 0,46$ repectively. The result of accuracy and precision of AAS method in compare with complexometric titration method for Zn showed no significant difference.

Keywords: Method validation, atomic absorption spectrophotometry, complexometric titration, zinc sulphate, diarrhea